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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
09/931,415	08/17/2001	Debabrata Ghosh	45283.2	3885	
22828	7590 05/30/2003			10	
EDWARD YOO C/O BENNETT JONES 1000 ATCO CENTRE 10035 - 105 STREET			EXAMINER		
			VO, HAI		
EDMONTON CANADA	, ALBERTA, AB T5J3T	2	ART UNIT	PAPER NUMBER	
			1771		
			DATE MAILED: 05/30/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application Me		Appliant 4(-)	<u></u>
		Application No		Applicant(s)	
Office Action S	ummar,	09/931,415		GHOSH ET AL.	
Office Action S	ummary	Examin r		Art Unit	
		Hai Vo		1771	
The MAILING DATE of Period for Reply	f this communication a	appears on the cove	r sheet with th	correspondence address	
A SHORTENED STATUTOR THE MAILING DATE OF THI - Extensions of time may be available urafter SIX (6) MONTHS from the mailing of the period for reply specified above in the period for reply is specified above. Failure to reply within the set or extend of Any reply received by the Office later the earned patent term adjustment. See 3 Status	IS COMMUNICATION nder the provisions of 37 CFR g date of this communication. Is less than thirty (30) days, a ree, the maximum statutory perioded period for reply will, by stathan three months after the ma	N. 1.136(a). In no event, how reply within the statutory mi od will apply and will expire tute, cause the application	ever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133).	on.
1) Responsive to commu	unication(s) filed on <u>1</u>	8 March 2003 .			
2a) This action is FINAL .	2b)□	This action is non-f	inal.		
3) Since this application closed in accordance Disposition of Claims				rosecution as to the merits 153 O.G. 213.	is
4)⊠ Claim(s) <u>27-36</u> is/are p	pending in the applica	ation.			
4a) Of the above claim((s) is/are withd	rawn from conside	ation.		
5) Claim(s) is/are a	allowed.				
6)⊠ Claim(s) <u>27-36</u> is/are re	ejected.				
7) Claim(s) is/are o	objected to.				
8) Claim(s) are sub	oject to restriction and	I/or election require	ement.		
Application Papers	•	·			
9)☐ The specification is obje	ected to by the Exami	ner.			
10) The drawing(s) filed on	is/are: a)□ acc	cepted or b) dobjec	ted to by the Exa	miner.	
Applicant may not reque	est that any objection to	the drawing(s) be he	ld in abeyance. S	ee 37 CFR 1.85(a).	
11) The proposed drawing of	correction filed on	is: a)□ approv	ed b)⊡ disappro	oved by the Examiner.	
If approved, corrected d	rawings are required in	reply to this Office ac	tion.		
12) The oath or declaration	is objected to by the I	Examiner.			
Priority under 35 U.S.C. §§ 119	and 120				
13) Acknowledgment is ma	nde of a claim for forei	ign priority under 3	5 U.S.C. § 119(a)-(d) or (f).	
a)□ All b)□ Some * c)[☐ None of:				
1. Certified copies of	of the priority docume	nts have been rece	eived.		
2. Certified copies of	of the priority docume	nts have been rece	eived in Applicati	on No	
	om the International E	Bureau (PCT Rule	17.2(a)).	ed in this National Stage	
14)☐ Acknowledgment is made					ion).
a) ☐ The translation of the standard of the s	he foreign language p	provisional applicati	on has been rec	eived.	,
Attachment(s)					
Notice of References Cited (PTO-8 2) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s	awing Review (PTO-948)	4)		(PTO-413) Paper No(s) Patent Application (PTO-152)	
S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office	Action Summary		Part of Paper No. 10	

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1. Claims 1-26 have been cancelled in the amendment received on 03/19/2003.

Claim Rejections - 35 USC § 102

- The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
 A person shall be entitled to a patent unless –
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 27-33 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by Sanocki et al (US 5,955,177) substantially as set forth in Paper no. 8.
- 4. Claims 27-32 and 36 are rejected under 35 U.S.C. 102(b) as being anticipated by JP-3-28288. JP'288 teaches a sealing member comprising a matrix of ceramic fibers and a plurality of ceramic particles uniformly dispersed within the matrix, and an inorganic binder for binding the ceramic fibers with the ceramic particles (page 5, claim 1). The ceramic fiber is alumina silica fiber (page 5). The ceramic powder is alumina (page 5). Since the fiber mat of JP'288 meets all the structures required by the claims, it is the examiner's position that the fiber mat would be substantially, inherently not hermetically gas-tight as set forth in the claims. It seems from the claim, if one meets the structure recited, the properties must be met or Applicant's claim is incomplete (Note discussion found in Ex parte Slob, 157 USPQ 172). Further, the non-hermetical seal would be inherently present, which is in line with In re Spada, 15 USPQ 2d 1655 (1990), products of identical chemical composition can not have mutually exclusive properties.

Claim Rejections - 35 USC § 103

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 6. Claim 33 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP-3-28288. JP'288 teaches the ceramic powder having an average particle size preferably less than 5 micron since the ceramic powder is attached to the ceramic fibers by an organic binder (page 5). The range disclosed JP'288 encompasses the range of the claimed invention. However, such a variable would have been recognized by one skilled in the art to impact the bonding strength between the ceramic fibers and the ceramic powder. As such, in the absence of unexpected results, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the ceramic powder having a particle size instantly claimed motivated by the desire to impact the bonding strength between the ceramic fibers and the ceramic powder, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.
- 7. Claims 34 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sanocki et al (US 5,955,177) or JP-3-28288 in view of Miyamichi et al (US 5,512,351). The primary reference fails to teach the ceramic particles comprising a first portion and a second portion wherein the average particle size of the first

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portion is larger than the average particle size of the second portion. Miyamichi teaches a prepreg article useful as heat insulating member comprising the ceramic particles that includes a first portion and a second portion wherein the average particle size of the first portion is larger than the average particle size of the second portion to cause strong mutual bonding (example 2, column 7, lines 1-10). Miyamichi teaches the ceramic particles having the size less than 1 micron within the range disclosed by the primary reference. Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to employ the ceramic powder having a particle size instantly claimed motivated by the desire to cause strong mutual bonding within the article.

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Response to Arguments

- 8. The claim objections and the 112 claim rejections have been overcome by the cancellation of claims 1-20.
- 9. The art rejections over Miyamichi, Ohkawa, and Mercuri have been overcome by the present amendment and response.
- 10. The art rejections over Sanocki have been maintained for following reasons. The arguments that Sanocki does not teach the fibre mat impregnated throughout with the particles as described in the Applicant's specification are not commensurate in scope with the claims. The language "interspersed" does not necessarily mean that the particles completely impregnated or uniformly interspersed through the fiber mat. The particles can partially be impregnated or randomly interspersed within the fiber mat. For these reasons, Sanocki reads on

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the claim limitations. Further, Sanocki discloses a fire barrier mat that is flexible and compressible (flexibility test, table 1, column 8, lines 44). Since the fiber mat of Sanocki meets all the structures required by the claims, it is the examiner's position that the fiber mat would be substantially, inherently not hermetically gastight as set forth in the claims. It seems from the claim, if one meets the structure recited, the properties must be met or Applicant's claim is incomplete (Note discussion found in Ex parte Slob, 157 USPQ 172).

Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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12. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hai Vo whose telephone number is (703) 605-

4426. The examiner can normally be reached on Tue-Fri, 8:30-6:00 and on

alternating Mondays.

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Terrel Morris can be reached on (703) 308-2414. The

fax phone numbers for the organization where this application or proceeding is

assigned are (703) 872-9310 for regular communications and (703) 872-9311 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application

or proceeding should be directed to the receptionist whose telephone number is

(703) 308-0661.

ΗV

May 23, 2003

TERREL MORRIS

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SUPERVISORY PATENT EXAMINER

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